

1 What is claimed is:

2 1. An assist device for a door handle and latch, said assist
3 device comprising:

4 a) an elongated hollow bar,

5 b) one end of said bar constructed and arranged to pivot
6 about a pivot means,

7 c) the other end of said bar constructed and arranged to
8 receive a pivot piece therein.

9 2. The assist device of claim 1, wherein said pivot means secures
10 said bar to a u-shaped bracket.

11 3. The assist device of claim 2, wherein said pivot piece,
12 bracket and bar are aligned along a longitudinal axis.

13 4. The assist device of claim 2 wherein said pivot means passes
14 through the top part of said bar and through the top part of
15 said u-shaped bracket.

16 5. The assist device of claim 2 wherein said pivot means consists
17 of a long inside threaded hollow bolt which passes through
18 said bracket and said bar, and a short outside threaded bolt
19 which is screwed into said long bolt.

20 6. The assist device of claim 1 wherein said pivot piece is
21 secured to said handle.

22 7. The assist device of claim 6 wherein said pivot piece projects
23 outwardly from said handle and is not as wide as said handle
24 and hence forms shoulders on said handle.

- 1 8. The assist device of claim 7 wherein said pivot piece
2 projecting part is recieved inside said bar so that said bar
3 is in close proximity to said shoulders.
- 4 9. The assist device of claim 6 wherein said pivot piece is
5 sturdily secured to said handle with two nuts and two bolts.
- 6 10. The assist device of claim 2, wherein said bracket is sturdily
7 secured to the door or door support with at least two screws.
- 8 11. The assist device of claim 2 wherein the top part of said bar
9 pivots on a pin secured to the top part of said bracket so
10 that said bar near the pivot area rests entirely within said
11 bracket.
- 12 12. The assist device of claim 1 wherein said bar has a
13 substantially constant cross-sectional area throughout its
14 entire length.
- 15 13. The assist device of claim 1 wherein said assist device parts
16 appear to be very tightly and sturdily arranged, yet said bar
17 pivots as desired.
- 18 14. The assist device of claim 1 wherein said bar has a square
19 cross-sectional shape.
- 20 15. The assist device of claim 14 wherein said pivot piece is flat
21 and substantially rectangular to form a relatively tight fit
22 inside the bar.
- 23 16. The assist device of claim 2 wherein said bar, pivot piece and
24 bracket are made from aluminum.

- 1 17. An assist device for a door handle, said assist device
2 comprising:
3 a) an elongated hollow bar,
4 b) one end of said bar constructed and arranged to pivot about
5 a pivot means,
6 c) the other end of said bar constructed and arranged to
7 receive a pivot piece,
8 d) said pivot piece projecting from said handle.
- 9 18. The assist device of claim 17 wherein the edge of said handle
10 from which said pivot piece projects comprises two shoulders.
- 11 19. The assist device of claim 18 wherein the shoulders are in
12 close proximity to the end of the bar when the pivot piece is
13 inserted into the bar.
- 14 20. The assist device of claim 17 wherein said pivot means
15 comprises a hollow inside threaded long bolt receiving a short
16 outside threaded short bolt therein.
- 17 21. The assist device of claim 20 wherein said pivot means secures
18 a bar end to a u-shaped bracket.
- 19 22. The assist device of claim 21 wherein said pivot means, said
20 bar and said u-shaped bracket are substantially aligned along a
21 longitudinal axis.
- 22 23. An assist device for a door latch and handle, said assist
23 device comprising:
24 a) an elongated hollow bar,

1 b) one end of said bar constructed and arranged to pivot about
2 a pivot pin,
3 c) the other end of said bar constructed and arranged to
4 recieve a pivot piece therein,
5 d) said pivot pin securing said bar to a u-shaped bracket,
6 e) said pivot pin comprising a long inside threaded hollow
7 bolt which passes through a top part of said bar and a top
8 part of said bracket, and a short outside threaded bolt
9 screwed into said long bolt,
10 f) said pivot piece secured to said handle by two nuts and two
11 bolts and projecting from said handle,
12 g) said handle at the end from which the pivot piece projects,
13 comprising two shoulders,
14 h) said pivot piece, bracket and bar substantially axially
15 aligned along a longitudinal axis,
16 24. The assist device of claim 23 wherein the end of said bar
17 which receives the pivot piece therein is in close proximity
18 to said shoulders.